PDR Completed Actions Items

Date Added	Action Item #	Topic	Action Item Description	Submitter / Organization	Suggested Action from Submitter	Owner	RSIS Response	Suspense Date
9/13/02	1	Program Management	WBS - Project Plan	OST PPD	Track Cost of Work Completed and % of Work Completed	RSIS - PM / PC	We are evaluating Primavera and the Deltek Time Collection Application to see if either application will support tracking Cost of Work Completed and % of Work Completed. Approach will be briefed at the Technical and Cost Proposal Review.	CLOSED
9/13/02	2	Program Management	Legacy RF Generator supportability is currently under review by NRC and ROC to determine if the LRU can be supported until replaced during Dual Pol Project. If unsupportable, decision needs to determine if replacement should be included in ORDA project or as separate O&M by ROC.	ROC	Determine supportability	NPI PM	This is not currently a program requirement.	CLOSED - 9/19/02
9/16/2002	3	Program Management	The responsibility matrix should describe the agencies role in setting requirements and approving specifications.	NWS SEC	Describe the agencies role in setting requirements and approving specifications in the responsibility matrix.	RSIS PM / NPI PM	Agency role defined by CCB and PMC.	CLOSED - 9/18/02
9/16/2002	4	Program Management	The role of IV&V should be described within the responsibility matrix. The current matrix does not identify an IV&V role for the Government. Coordination and Approval activities are defined for the Project Lead, Project Engineer, Radar Operations Center, Contractor, or the Program Management Committee, but this does not provide a sufficient role by the agencies during the creation and review of deliverables.	NWS SEC	The role of IV&V should be described within the responsibility matrix.	RSIS - PM	IV&V Role will be fulfilled by ROC. Roles and Responsibilities will be updated where appropriate	CLOSED - 9/18/02
9/13/02	5	Security	Do we have agreement in writing on security approach?	OST PPD	Get Agreement in Writing	RSIS - Security Engineer	A request for concurrence on the National Certification and Accreditation approach for the WSR-88D was sent to the principal agents for the Designated Approving Authority (DAA) for each agency on September 19, 2002. Approval to occur on or before 10/18/02.	CLOSED - 9/19/02
9/13/02	6	Security	What is estimated impact for ORPG Development to meet security requirements (Slide 38)	OST PPD	Determine estimated impact for ORPG Development to meet security requirements	RSIS - Security Engineer	The expected impact to the ORPG should not involve more than what would be expected to sustain the level of security required to operate as an accredited system, and establish a new interface to the ORDA. The ROC Security Engineering POC has already been advised of sustainment security upgrades that will be required. The ORDA security impacts will focus around the interface to the ORPG. We are intending to utilize secure tunneling methods for control commands and no longer require the X.25 protocol, thus the ORPG firewall/router function will be updated or changed. Approach to be briefed at CDR.	CLOSED - 9/19/02
9/13/02	7	Security	System Security Accreditation may need changes to ORPG. These changes need to be identified ASAP, and determination made on cost and schedule and office of responsibility	ROC	Identify CCR's for ORPG. Identify Office of Responsibility for implementing CCR's (ROC vs. ORDA. Determine impact to cost and schedule.	RSIS - Security Engineer	Refer to Action Item 6.	CLOSED - 9/19/02

9/13/02	8	Security	Regarding site physical security and site procedures, how does the program address these security issues. These appear to be agency policy issues (Slide 38)	OST PPD	Regarding site physical security and site procedures, determine how the program address these security issues. These appear to be agency policy issues	NPI PM	This is an agency specific requirement. This is not under this program.	CLOSED - 9/19/02
9/16/2002	9	Security	Describe how the system security requirements are to be placed in the system baseline and tracked through testing. This would provide an understanding of the process to be used to ensure that these requirements are met.	NWS SEC	Describe how the system security requirements are to be placed in the system baseline and tracked through testing.	RSIS - Security Engineer	With the National level Certification and Accreditation process, a Requirements Traceability Matrix (RTM) must be developed documenting National, Federal, and Agency level security requirements. The RTM then traces to the Information System Security Plan (ISSP) that defines the requirement in a policy or "shall" statement. These policy statements are added to the DOORS database with system security test procedures to ensure the requirement is met. System testing utilizes the DOORS requirements to validate that the system meets all requirements. Expected Completion: Approach to be briefed at CDR.	CLOSED - 9/19/02
9/16/2002	10	Security	Approval for the use of Java should be a high priority, as the current design efforts assume the use of Java.	NWS SEC	Approval for the use of Java.	RSIS - Security Engineer	A TIM was conducted with SIGMET and RSIS-Security on 5 Sept 02. It was decided that the use of JAVA will now be behind the servers for the ORDA. This will preclude any additional security authorizations. Any "unsecure" services that must be transmitted between the ORDA and ORPG will utilize secure tunneling and secured in a manner identified by agency directives. Air Force Base routers are not required of the WSR-88D system. The interface to base routers occurs with the OPUP display system. The OPUP system accreditation is currently completing the Certification and Accreditation of the System and will comply with the additional Certification of Networthiness process for data passing through the base router and direct interface into the weather office local area networks. Approach to be briefed at CDR.	CLOSED - 9/19/02
9/16/2002	11	Security	Identify the "Other Non-Secure Procedures Within System" that may be required. Approval for these procedures may be non-trivial and a long-lead item. Identify whether or not use of Air Force Base Routers will be needed, as this will result in additional certification efforts.	NWS SEC	Identify the "Other Non-Secure Procedures Within System" that may be required.	RSIS - Security Engineer	Refer to Action Item 11.	CLOSED - 9/19/02

Date	#	Category	Issue	Originator	Action	Assigned	Response	Status
9/16/2002	12	Security	A Vulnerability Assessment is a practical and frequently used approach to ensure that the implementation meets security requirements. Consider adding a Vulnerability Assessment to the System Security Plan.	NWS SEC	Consider adding a Vulnerability Assessment to the System Security Plan.	RSIS - Security Engineer	A Vulnerability/Risk Assessment (CDRL) will be conducted separately as part of the design effort under the Management's Risk Management process. This will identify all design and operational vulnerabilities uncovered with researching the component capabilities and network/interface approach. A final Vulnerability/Risk Assessment will be completed as part of the Certification and Accreditation documentation that will provide mitigation procedures or processes to secure identified remaining vulnerabilities. Approach to be briefed at CDR.	CLOSED - 9/19/02
9/13/02	13	Hardware Technical Approach	Approve SCN04 ASAP. Allocation of SS requirements awaiting SCN04.	ROC	Resolve remaining SCN-04 issues. Accelerate Tri-Agency review and approval.	NPI PM	Scheduled for electronic CCB on September 19.	CLOSED - 9/18/02
9/13/02	14	Hardware Technical Approach	Need to address FAA redundancy requirement (slide 85)	OST PPD	Address FAA redundancy requirement	RSIS - Systems Engineering	Concur - we are addressing the FAA redundancy requirement. Meetings are in progress with representatives from the AOS-250 group. Regular updates are provided to the COTR. Final presentation to be briefed at CDR.	CLOSED - 9/18/02
9/13/02	15	Hardware Technical Approach	Doug Erickson's issue on redundant power for FAA (slide 85)	OST PPD	Address Doug Erickson's issue on redundant power for FAA	RSIS - Systems Engineering	Refer to Action Item 14	CLOSED - 9/18/02
9/13/02	16	Hardware Technical Approach	In the current configuration of the FAA's dual channel system, if the RDA in one channel and the RPG in the other channel are out, the radar is out. Allowing cross-connection between channels would keep the radar on-line, thus, improving availability. The proposed system should allow maintenance on failed subsystems with taking the radar down. (See figure on form)	FAA	A at minimum, put the "hooks" in the ORDA to allow this to be added in a future build. Preferred would be to include the functionality in the baseline.	RSIS - Systems Engineering	Refer to Action Item 14	CLOSED - 9/18/02
9/13/02	17	Hardware Technical Approach	FAA has requested the FAA system be able to take either channel down for maintenance and keep the system operational (I.e. antenna through narrowband comms output)	FAA	Have NPI PM work with AOS-250 and AND-420 to meet this requirement.	NPI PM	Refer to Action Item 14	CLOSED - 9/18/02
9/13/02	18	Hardware Technical Approach	Need to address Power Management requirement (slide 84)	OST PPD	Need to address Power Management requirement	RSIS - Systems Engineering	Concur - Detailed power management design requirements will be provided to the ROC and FAA for review. Final presentation at CDR. The Action Item was added to the Risk List.	CLOSED - 9/18/02
9/13/02	19	Hardware Technical Approach	Add Power Management requirement to Local User Interface and Remote User Interface.	ROC	Add Power Management requirement to Local User Interface and Remote User Interface.	RSIS - Systems Engineering	Refer to Action Item 18	CLOSED - 9/18/02
9/13/02	20	Hardware Technical Approach	It is not clear whether a Power Administrator (such as the APC Master switch) will be used in the ORDA.	ROC	Determine Power Administration requirements based on Section 3.7.1.6.4 and 3.7.2.8 of the SS pertaining to controlled shutdown and cold startup. Also, look at NWS Redundant Full Standby requirements.	RSIS - Systems Engineering	Refer to Action Item 18	CLOSED - 9/18/02

9/13/02	21	Hardware Technical Approach	For NWS Systems, will the legacy CSU be retained? One use of these CSU's were to provide a remote loopback capability to test the T1 circuit end-to-end.	ROC	Determine if the Cisco Router DSU/CSU loopback capability can easily accomplish a T1 circuit validation - non-dependent on possible router malfunctions.	RSIS - Systems Engineering	We are evaluating the router's requirements and capabilities. As of 9/13/02, the plan is to keep the legacy CSU as reflected in the cabinet drawing. Detailed design briefed at CDR.	CLOSED - 9/18/02
9/16/2002	22	Hardware Technical Approach	Provide technical performance measurement data and analysis. This reduces risk by providing preliminary data showing whether the system will meet performance requirements.	NWS SEC	Provide technical performance measurement data and analysis.	RSIS - Systems Engineering	Using MIL-STD-1521B as a guide, Slides 62-65 provide data to ensure the system will meet performance requirements. Final design is still in development. Throughout the design stage, analysis will take place to ensure the system will meet performance requirements. Final presentation at CDR.	CLOSED - 9/18/02
9/16/2002	23	Hardware Technical Approach	Describe the primary hardware design trade-offs and design decisions. For example, a hardware decision that was made prior to PDR was to integrate the RDA display with the RCP8 computer. What are the trade-offs, say with having a stand-alone Linux workstation? A trade-off analysis would document important design decisions, link them to requirements, and provide the basis for change if future circumstances warrant it.	NWS SEC	Describe the primary hardware design trade-offs and design decisions.	RSIS - Systems Engineering	Slides 50 and 51 discuss preliminary design synthesis and development choices. This was a COTS vendor decision not driven by WSR-88D requirements.	CLOSED - 9/16/02
9/16/2002	24	Hardware Technical Approach	Assess the expected Data Quality of the SIGMET generated base data to help ensure that it will meet NEXRAD requirements. Early identification of problems will help ensure that the deployment milestone won't slip due to data quality concerns	NWS SEC	Assess the expected Data Quality of the SIGMET generated base data to help ensure that it will meet NEXRAD requirements.	RSIS - Systems Engineering	We are conducting TIM's with RSIS and ROC. Team RSIS has agreed to convert the SIGMET SQI to 3 individdual SNR's. The Action Item was added to the Risk List.	CLOSED - 9/18/02
9/16/2002	25	Hardware Technical Approach	Provide Redundant Configuration details. It was reported that the Redundant Configuration is often discussed; however no design information was provided. [Layout] [Duplicate to Action Item 15.]	NWS SEC	Provide Redundant Configuration details.	RSIS - Systems Engineering	Refer to Action Item 14	CLOSED - 9/18/02
9/16/2002	26	Hardware Technical Approach	ROC is asking for the power distribution design for the redundant configuration to include power separation between channels to permit maintenance on one without affecting the other. (This may be a new requirement, but should nevertheless be considered.) [Duplicate to Action Item 16.]	NWS SEC	ROC is asking for the power distribution design for the redundant configuration to include power separation between channels to permit maintenance on one without affecting the other.	RSIS - Systems Engineering	Refer to Action Item 14	CLOSED - 9/18/02
9/16/2002	27	Hardware Technical Approach	Describe characteristics and limitations of the SIGMET signal processor and antenna controller. Early identification of limitations provides an opportunity for correction. [SIGMET Limitations]	NWS SEC	Describe characteristics and limitations of the SIGMET signal processor and antenna controller.	RSIS - Systems Engineering	We are conducting TIM's with RSIS and ROC to validate the signal processing performed by the SIGMET equipment. Final presentation at CDR.	CLOSED - 9/18/02
9/16/2002	28	ORDA/ORPG Interface	Analyze alternative approaches to sending data to the RPG. Address the cost, benefits, and schedule impact for each alternative on both RDA and RPG. This would help create value to the Government for a complex design decision. At one extreme, the Government could continue with the Contract to deliver to the legacy interface (with previously agreed modifications). At the other extreme, the Government could accept a Contractor proposal to use the current SIGMET data and modify the RPG to accept it.	NWS SEC	Analyze alternative approaches to sending data to the RPG. Address the cost, benefits, and schedule impact for each alternative on both RDA and RPG.	RSIS - Systems Engineering	Slides 150-155 discuss the ORDA/ORPG Interface concerns. In addition, TIM's are taking place with SIGMET and the ROC to resolve concerns. Meeting Minutes are prepared and distributed. Final presentation at CDR.	CLOSED - 9/18/02

Date	#	Topic	Issue	Originator	Action	Assigned	Resolution	Status
9/16/2002	29	ORDA/ORPG Interface	Clearly identify impacts to the ORPG baseline due to the ORDA project. Changes to the ORPG are expected due to the wideband protocol change to TCP/IP, changes in alarms and error messages due to changes in RDA hardware, changes in performance data, need to provide Archive II metadata, and changes in the MSCF. These impacts must be quickly identified as they require an ORPG design, development, and test effort and must be synchronized with ORDA testing. [ORPG Impacts]	NWS SEC	Clearly identify impacts to the ORPG baseline due to the ORDA project.	RSIS - Systems Engineering	Refer to Action Item 28	CLOSED - 9/18/02
9/13/02	30	Software Technical Approach	There is no software development process. How do we design to requirements? What is your design process? Where are the entrance and exit criteria for he steps in the design process? What are the entrance/exit criteria for each step in the process?	NWS SEC	Define a software development process. Most importantly see how you are going to go from requirements analysis/RAP to design to actual code.	RSIS - Software Engineering	A meeting was held following PDR with RSIS Software Engineering, ROC Engineering, OST SEC, OST PPD to clarify the software development approach. The Software Development Plan will document the Software Development Process. Drafts will be sent out for review. Approach to be briefed at CDR.	CLOSED -9/19/02
9/13/02	31	Software Technical Approach	Clarify with SMEs on acceptance of Sigmet's recommended changes to operation (Slides 113 and ff.)	OST PPD	Clarify with SMEs on acceptance of Sigmet's recommended changes to operation.	RSIS - Systems Engineering / SIGMET	Concur - We are conducting TIM's with SMEs from the ROC, RSIS, and SIGMET to evaluate the SIGMET design. Meeting Minutes are prepared and distributed to CO, OST, PPD Supervision, ROC Supervision, and Agency Reps. Final Presentation at CDR.	CLOSED - 9/18/02
9/13/02	32	Software Technical Approach	Determine SIGMET SNR Threshold approach	ROC	Evaluation by ROC Eng/RSIS Eng. Determine the impact to RPG.	RSIS - Systems Engineering / SIGMET	Refer to Action Item 31.	CLOSED - 9/18/02
9/13/02	33	Software Technical Approach	Determine if IRIS 3-part hybrid task (VCP) Scanning	ROC	Evaluation by ROC Eng/RSIS Eng. Determine the impact to RPG.	RSIS - Systems Engineering / SIGMET	Refer to Action Item 31. Action Item added to Risk List.	CLOSED - 9/18/02
9/13/02	34	Software Technical Approach	Determine if SIGMET solution for range folded echoes done automatically without batch mode VCP's is acceptable.	ROC	Evaluation by ROC Eng/RSIS Eng. Determine the impact to RPG.	RSIS - Systems Engineering / SIGMET	Refer to Action Item 31.	CLOSED - 9/18/02
9/13/02	35	Software Technical Approach	Determine if the SIGMET Calibration process meets legacy requirements	ROC	Evaluation by ROC Eng/RSIS Eng. Determine the impact to RPG.	RSIS - Systems Engineering / SIGMET	Refer to Action Item 31. Action Item added to Risk List.	CLOSED - 9/18/02
9/13/02	36	Software Technical Approach	Determine if SIGMET RVP Adaptation FFT Clutter filter approach is acceptable	ROC	Evaluation by ROC Eng/RSIS Eng. Determine the impact to RPG.	RSIS - Systems Engineering / SIGMET	Refer to Action Item 31. SIGMET will produce details of the algorithm. Action Item added to Risk List.	CLOSED - 9/18/02
9/13/02	37	Software Technical Approach	FAA has a requirement for filtered data, free of clutter. NWS has a requirement for data without the loss of weather data. The system being developed should meet both these requirements.	FAA	Provide dual feeds of filtered and unfiltered data as a system requirement between RDA and RPG	RSIS - Systems Engineering	Refer to Action Item 31.	CLOSED - 9/18/02
9/13/02	38	Software Technical Approach	During SIGMET presentation, when the "unfolding" algorithm fails the missing data is filled in. After the presentation, a conversation clarified that the hole or missing data is filled in by SIGMET's RPG equivalent not the RDA SIGMET equivalent.	ROC	Determine if the ORPG would have to fill in the missing unfolded data	RSIS - Systems Engineering	Refer to Action Item 31. SIGMET will implement Legacy Batch Mode. Action Item added to Risk List.	CLOSED - 9/18/02
9/13/02	39	Software Technical Approach	Velocity Data - Resolution of data shipped to RPG would be of Velocity not m/s as legacy currently does. Also, velocity data resolution of .5m/s and 1 m/s are used to expand the run-length encoding range of values from +/- 64kts - +/- 128 kts need for hurricane weather situations.	ROC	Velocity Data - Resolution of data shipped to RPG	RSIS - Systems Engineering	Refer to Action Item 31.	CLOSED - 9/18/02

9/16/2002	40	Program Management	Provide the CI development schedule. This would support the program baseline and provide a common framework to discuss program performance.	NWS SEC	Provide the CI development schedule.	RSIS - Program Control	The delivered CDRL's will have schedule and timing defined.	CLOSED - 9/16/02
9/16/2002	41	Software Technical Approach	[System Requirements Allocation and Functional Flow] Show functional flow and requirements allocation. This would show that all requirements have been accounted and would provide insight into how the system will be able to be used.	NWS SEC	Show functional flow and requirements allocation.	RSIS - Software Engineering	Slide 91 represents the CI/CPCI flow. Upon completion of the analysis, requirements will be documented to the appropriate CI/CPCI. Final presentation at CDR.	CLOSED - 9/18/02
9/16/2002	42	Software Technical Approach	Define the design and development process. Address how it will transition requirements into achievable design. Address how the requirements and design will support system development and test. This would provide a view of the planned process and would help ensure that requirements won't be dropped. It also provides reviewers with insight into design, development, and test to provide a common understanding of approach. The process should include clear articulation of design and development artifacts that may be reviewed to ensure that the final product meets requirements. [Software Development Process] [Duplicate to Action Items 21 and 22.]	NWS SEC	Define the design and development process.	RSIS - Software Engineering	Refer to Item 30.	CLOSED - 9/16/02
9/16/2002	43	Software Technical Approach	No software design was presented. At this point in the project, clear definition of the software CPCI's, a general description of the components of each CPCI, the software architecture, and a clear definition of communication between CPCI's should be presented. [Software Design]	NWS SEC	Define the design and development process.	RSIS - Software Engineering	Refer to Item 30.	CLOSED - 9/16/02
9/16/2002	44	Software Technical Approach	It was reported that very little software reuse is possible. Previously it was assumed that significant software reuse would be possible for the non-signal processing elements of the RDA. The fact that no software design was presented and that little reuse of software is expected points to software design being a high risk element of the project.	NWS SEC	Determine if the fact that little reuse of software is a high risk element of the project.	RSIS - Software Engineering	Issue was examined last year during POC. SIGMET is porting the RVP-7 software to the RVP-8. The RVP-8 is based on Linux Red Hat OS. The reuse of legacy software will increase risk, cost and schedule.	CLOSED - 9/18/02
9/16/2002	45	Software Technical Approach	Some of the software will be RSIS developed; some is to be SIGMET developed. There was little discussion on the definition of the software components, who was responsible for which part, and the interfaces between these components. This points to high risk in the software integration between RSIS and SIGMET developed components.	NWS SEC	Determine if there is high risk in the software integration between RSIS and SIGMET developed components.	RSIS - Software Engineering	We are conducting TIM's with SIGMET to define roles and responsibilities. Responsibility for task completion will be documented in the project plans. Final presentation at CDR.	CLOSED - 9/18/02
9/16/2002	46	Software Technical Approach	Describe the functional flow and allocation to top level software units. Identify the requirements that will be met using COTS software and those that need to be developed. This would provide the preliminary software design and insight into the amount of developed software that will be needed and the associated risk. [Software Functional Flow and Requirements Allocation]	NWS SEC	Describe the functional flow and allocation to top level software units.	RSIS - Software Engineering	Refer to Action Item 45.	CLOSED - 9/18/02
9/16/2002	47	Software Technical Approach	Describe the system control functions. This supports the design and would reduce the risks completion of the critical software design. System Control]	NWS SEC	Describe the system control functions.	RSIS - Software Engineering	Refer to Action Item 45.	CLOSED - 9/18/02

9/16/2002	48	Software Technical Approach	Describe software support services needed during operational deployment. This provides planning information for operations and maintenance. [Software Support during Operational Deployment]	NWS SEC	Describe software support services needed during operational deployment.	RSIS - Systems Engineering	The operational software will be loaded by SIGMET. Adaptation Data will be loaded at the site. Adaptation Data will be provided to the site via a CD or a ftp site.	CLOSED - 9/18/02
9/16/2002	49	Software Technical Approach	It was reported that system requirements allocation is at 88% complete. The documentation of this allocation should be provided. Technical data is being kept in the DOORS database. A process that facilitates review and discussion of these data items should be developed, perhaps as a part of an IV&V process.	NWS SEC	Show functional flow and requirements allocation.	RSIS - Software Engineering	Slide 91 represents the CI/CPCI structure. The process used for review and discussion is in DOORS. Review will be completed by ROC SME's.	CLOSED - 9/18/02
9/13/02	50	Testing	Clarify coordination on RAPs (Slide 95)	OST PPD	Clarify coordination on RAPs	RSIS - Test Engineering	The process has been updated and approved by the ROC.	CLOSED - 9/18/02
9/16/2002	51	Testing	With RSIS developing all plans and procedures, and ROC assuming responsibility of testing with the System Test phase, the contractor will not be responsible for verifying many of the requirements, the ROC will be. This points to high program risk in the verification of requirements, as the contractor will not have the responsibility to complete the verification. [Test Approach]	NWS SEC	Determine if there is high program risk in the verification of requirements, as the contractor will not have the responsibility to complete the verification.	NPI PM	As described in the TEMP, contractor provides verification and report, Government accepts or rejects.	CLOSED - 9/16/02
9/16/2002	52	Testing	A test approach is needed which clearly states the approach to be used to verify that the data from the new signal processor is as good or better than the data from the existing, deployed signal processor. This approach should included quantitative analysis of data from the two systems.	NWS SEC	A test approach is needed which clearly states the approach to be used to verify that the data from the new signal processor is as good or better than the data from the existing, deployed signal processor. This approach should included quantitative analysis of data from the two systems.	RSIS - Systems Engineering / Test Engineering	Refer to Action Item 27.	CLOSED - 9/18/02
9/16/2002	53	Testing	Describe the process to track documented requirements, allocation to CI's and CPCI's, and the resulting design, test cases, and test procedures. The RAP was described as a vehicle to capture description of the requirement, resulting design, and test approach. Given that the RAP is necessarily a linear process, and that many requirements affect multiple CI's or CPCI's in a relational way, the RAP approach appears to have limitations. [Requirements Analysis Paper] [Partially duplicates Action Item 31.]	NWS SEC	Describe the process to track documented requirements, allocation to CI's and CPCI's, and the resulting design, test cases, and test procedures.	RSIS - Test Engineering	The RAPs approach is not a linear process and the process does recognize that many requirements affect multiple CI's and CPCI's.	CLOSED - 9/16/02
9/13/02	54	Systems Support - Assembly Plan	Assembly Plan - concern that the deployment team must set up the router and system security mechanisms at each site. Potential for Access control lists passwords, etc. will not be set up correctly.	RSIS - Security	Relook at establishing component system integration prior to sending to site.	RSIS - System Support Engineering	Evaluation to take place on who will set up the router and system security mechanisms. The assembly plan will document the process. This is a CDR deliverable and will be briefed at CDR.	CLOSED - 9/18/02
9/13/02	55	Systems Support - Assembly Plan	Consider alternatives, such as system-on/off test at assembly, duplicate assets to site. Objective is to reduce risk of failure at site (Slide 126)	OST PPD	Consider alternatives, such as system-on/off test at assembly, duplicate assets to site.	RSIS - System Support Engineering	Alternatives will be evaluated, documented in the assembly plan, and briefed at CDR.	CLOSED - 9/18/02
9/13/02	56	Systems Support - Assembly Plan	Is the qualification of more than one each of ORDA components a requirement (Slide 71)	OST PPD	Determine if the qualification of more than one each of ORDA components a requirement	RSIS - System Support Engineering	We will determine if the SS and ILSP has a requirement for multiple vendors and brief it at CDR.	CLOSED - 9/18/02

9/13/02	57	Systems Support - Assembly Plan	RCP8 & RVP8 have a unique back panel for WSR-88D. Will this have a unique part number?	ROC	Determine if the components will this have a unique part number.	RSIS - System Support Engineering	The design is still in development. Evaluation is on-going to determine if a unique part number is required. The types of drawings for the ILSP is also in the evaluation process. Final presentation at CDR.	CLOSED - 9/18/02
9/16/2002	58	Systems Support - Assembly Plan	COTS components are being procured from multiple vendors. How are reliability and quality of these components assured? [Reliability]	NWS SEC	How are reliability and quality of these components assured?	RSIS - System Support Engineering	Generic data from EMRS will be compared to the vendor specifications. Vendors are selected based upon their past history with SIGMET. Final presentation at CDR.	CLOSED - 9/18/02
9/16/2002	59	Systems Support - Assembly Plan	Which manufacturing standards are specified or applied? [Manufacturing]	NWS SEC	Determine which manufacturing standards are specified or applied?	RSIS - System Support Engineering	SIGMET's vendors are ISO 9000 Certified	CLOSED - 9/18/02
9/16/2002	60	Systems Support - Assembly Plan	The assembly plan approach described which deferred initial power-up and integration of components until delivery at the site appears to be of high risk. An approach that verifies proper function of the components before shipment to the site should be used.[Support Approach] [Duplicate of Action Item 33.]	NWS SEC	Determine if an approach that verifies proper function of the components before shipment to the site should be used.	RSIS - System Support Engineering	SIGMET will complete the initial power-up and integration of components. The assembly plan documents the process used to ensure the operational readiness of the rotor.	CLOSED - 9/16/02
9/13/02	61	Systems Support - Training	Training - please add security maintenance operator to training	RSIS - Security	Add security training	RSIS PM	Will be addressed in Training Plan. Coordination with NWSTC will take place Nov 7th, 2002. Final Presentation at CDR.	CLOSED - 9/18/02
9/13/02	62	Systems Support - Deployment	Deployment Planning - System Site Acceptance needs to clarify who in the Gov't accepts the ORDA and assumes system is operational.	OST PPD	Clarify responsibilities - may consider having ROC personnel accomplish - resource issue for the ROC so need to resolve	NPI PM	Concur - Responsibilites will be clarified and it will be briefed at CDR.	CLOSED - 9/18/02
9/13/02	63	Systems Support - Deployment	Deployment should address special requirements of Alaska sites (Slide 147)	OST PPD	Address special requirements of Alaska sites	RSIS - System Support Enginnering	There are no unique requirements for the the Alaska sites. Precautions will be made by taking spare kits to the site. Information will be briefed at CDR.	CLOSED - 9/18/02
9/16/2002	64	Systems Support - Deployment	The project should develop a plan to coordinate and dispose of removed or excess equipment, rather than delegating this to the site. [Disposal of Equipment]	NWS SEC	Develop a plan	RSIS - System Support Engineering	The site is responsible for the coordination, and disposition of excess eqiupment. The precedence was set with the ORPG program.	CLOSED - 9/18/02
9/13/02	65	Program Management	Schedule does not show the provisioning conference	FAA	Provide for Government provisioning conference in the schedule and notify tri-agences of dates to attend.	RSIS PC	PDR Presentation Slide 131 provides information for the provisioning conference. The conference will be held in Spring 2002.	CLOSED - 9/18/02
9/13/02	66	Program Management	Drawings not listed in milestones -SCD's, ICD's, hardware documentation	ROC	Add to schedule	RSIS PC	The delivered CDRL's will have schedule and timing defined.	CLOSED - 9/13/02
9/13/02	67	Program Management	Milestone chart has dates for ICD's. Need dates for SSDD, B1, etc.	ROC	Need dates for SSDD, B1, etc.	RSIS PC	The delivered CDRL's will have schedule and timing defined.	CLOSED - 9/13/02
9/13/02	68	Program Management	Where is the process shown on slide 174, will the FCA/PCA be held?	ROC	Add FCA/PCA to milestone	RSIS PC	The delivered CDRL's will have schedule and timing defined.	CLOSED - 9/13/02
9/13/02	69	Program Management	Throughout the briefing, we heard that the RVP8 is under development, SIGMET is developing an RF generator card, and that the RDA would require a custom backplane. This system has been sold to the FAA as COTS with the amount of development disclosed, it appears to be development. Development infers another level of management, time and cost that should be accounted for.	FAA	Determine if this is COTS or development system and make appropriate program changes	RSIS Systems Engineering	The backplane will be part of the SIGMET design. All SIGMET systems will be configured with this backpanel.	CLOSED - 9/18/02

9/13/02	70	Program Management	Several references have been made to data residing in DOORS or on web site. Is data available outside of Norman? If not, how is it reviewed?	OST/A	Make "internal" data accessible to at least HQ/OST for review and comments.	RSIS PC	Data for review is available on website.	CLOSED - 9/13/02
9/13/02	71	Program Management	Define Responsible, coordinating and Approval. SEMP reviewed by ROC had "A" as advising, not approval.	ROC	Define R, A, and C on SEMP Matrix. Update ROC's document.	RSIS PC	SEMP reflects updated information from briefing. Available on CD and on DOORS.	CLOSED - 9/13/02
9/13/02	72	Program Management	Appears some PDR CDRL items available for review via CD. Unable to complete review unless all PDR CDRL's items are available for review.	OST/A	Make all PDR CDRL items available (electronically if possible) for review (Design & Product Docs.)	RSIS PC	PDR CDRL deliverables are listed in PDR Presentation on slides 27 & 28. Presentation and plans provided for review on CD. PDR Deliverable information is provided to OST.	CLOSED - 9/13/02
9/13/02	73	Program Management	Risk Management plan has textbook approach to risk management. It does not seem to have identified risk in the overall tri-agency program.	FAA	Conduct risk identification using personnel from all three agencies to expand risk identification.	RSIS - Test Engineering	OST will accept and evaluate any Risk items submitted by anyone in the tri-agencies. Risks can be submitted via feedback form on website.	CLOSED - 9/13/02
9/13/02	74	Security	The homeland security project required the use of point target cancelation being overriden to allow aircraft detection. If we begin assisting Homeland Security in the future an option to see point targets would be needed.	ROC	Determine if we need point target information for Homeland Security	RSIS - Systems Enginnering / SIGMET	This is not a requirement.	CLOSED - 9/13/02
9/13/02	75	Hardware Technical Approach	During the briefing, it was disclosed that the specification has not been baselined. There should be a delta PDR when there is baselined specification.	FAA	Baseline spec. and conduct delta PDR.	NWS SEC	SCN-04 scheduled for electronic CCB on September 19. Delta PDR will not be conducted.	CLOSED - 9/13/02
9/13/02	76	Hardware Technical Approach	RSIS/SIGMET seem to be developing requirements. Requirements should come from the specification	FAA	Any requirement change should be accomplished through the CCR process. Determine who should be responsible for these submissions.	NPI PM	RSIS and SIGMET are providing a system that meets the NEXRAD SS requirements.	CLOSED - 9/13/02
9/13/02	77	Hardware Technical Approach	Dual Tx/Rx is not an option. U.S. is in danger of losing 10 cm. Band for radars; already a problem with installing radars in this band today.	FAA	Do not proceed with this option	RSIS - Systems Enginnering	Agree - this is not an option.	CLOSED - 9/13/02
9/13/02	78	Hardware Technical Approach	Based on presentation by Rex Reed, (9/3/02), there are doubts that SIGMET can meet baseline system. MIT/LL has recommended an Echo Tech board for the ASR-9 upgrade.	FAA	Evaluate the ability of SIGMET to meet both baseline and future projected requirements.	RSIS - Systems Enginnering	We have consulted with Mr. Reed on the doubts that SIGMET can meet the baseline system. Mr. Reed participated in a review of the SIGMET system and other ORDA alternatives in mid-April. Mr. Reed supported the selection of SIGMET for the ORDA program. MIT/LL is designing TDWR using the SIGMET RVP-8 digital receiver.	CLOSED - 9/13/02
9/13/02	79	Hardware Technical Approach	ORDA layout; with a pullout keyboard and monitor, tech has lost pullout drawer for use with manuals, tools, etc. Need to add/move pullout drawer to near empty right cabinet.	FAA	Ensure technician has pullout drawer for use when working on system.	RSIS - Systems Enginnering	The pullout key board and monitor does not effect the pullout drawer for Technician. It provides more room.	CLOSED - 9/13/02
9/13/02	80	Software Technical Approach	Any changes to the ICD's must be coordinated through tri-agency.	FAA	Coordinate changed ICD's through tri-agency.	NPI PM	Concur - we are coordinating changed ICD's through Tri - Agencies.	CLOSED - 9/13/02
9/13/02	81	Software Technical Approach	The use of UNIX an Linux compounds the training and support of the system. Further, the use of workstations and PC's compound the logistics support of the system.	FAA	Evaluate use of mixed systems based upon lifecycle cost and security.	RSIS - Systems Enginnering	We are using Linux Red Hat exclusively. We will use the same SBC in the RVP-8 and the RCP-8.	CLOSED - 9/13/02
9/13/02	82	Software Technical Approach	Clarify Software Development process, (ie, once requirements identified, how to smartly design software to best meet the requirement) (Slide 98)	OST PPD	Clarify Software Development process	RSIS - Software Engineering	Refer to Action Item #30	CLOSED - 9/16/02
9/13/02	83	Testing	The Government has not developed a test matrix to ensure proper testing of the system	FAA	Develop Government test Matrix	NPI PM	The contractor provides ROC with test plans, procedures and reports. This approval is documented in the TEMP.	CLOSED - 9/16/02

9/13/02	84	Systems Support - Assembly Plan	How are you going to do QA? Who in the organization has that responsibility? What is the plan to insure quality functions are met?	NWS SEC	Determine how are you going to do QA? Who in the organization has that responsibility? What is the plan to insure quality functions are met?	RSIS - System Support Engineering	QA for software development is documented in the TEMP. QA during production is completed at SIGMET and documented in the SIGMET Manufacturing Process Flow. Deployment QA is handled by Logistics Engineering. Inspection on incoming and outgoing components per the process that will be documented on the Configuration Control Sheets. Configuration Control Sheets developed through the CM Analyst, Systems, Software, and Test Engineers.	CLOSED - 9/13/02
9/13/02	85	Systems Support - Assembly Plan	The concept of putting the system together at the site for the first time has a high risk for problems at the isolated FAA sites. Getting parts to some of these sites takes 3 or more days and is very expensive.	FAA	Perform system test of FAA units prior to shipment. Also, ensure unique agency shipping/packaging requirement are met (FAA remote sites)	RSIS - System Support Engineering	Concur - SIGMET will conduct systems tests on all units prior to shipment. Procedure will be documented in the Assembly Plan.	CLOSED - 9/13/02
9/13/02	86	Systems Support - Assembly Plan	Equipment shipped from West Oaks will be sent sealed. Cable assemblies that are part of this equipment require Ref Designators and from/to labels installed. How and when will those be installed?	ROC	Determine how and when will those be installeed.	RSIS - System Support Engineering	Cable vendor will label cables per the cable assembly drawings. Vendor Item Drawings for replacements will not specify cable labels.	CLOSED - 9/13/02
9/13/02	87	Systems Support - Assembly Plan	Cables are 1 to 1 - this does not mean no documentation; VID's for cables, marker sleeve kits and cable assembly kits. (from/to and ref designators still required)	ROC	Create VID's for cables, marker sleeve kits and cable assembly kits. (from/to and ref designators still required)	RSIS - System Support Engineering	Vendor Item Drawings for cables will be provided.	CLOSED - 9/13/02
9/13/02	88	Systems Support - Maintenance Plan	Site replacement of a failed unit takes up to 30 days. This is unacceptable for FAA systems.	FAA	Ensure process in in place to get a defective part replaced within 2-3 days. Examine the COTS warranty for specialized/custom requirements of the agencies as necessary.	RSIS - System Support Engineering	During installation for all OCONUS sites, additional spares will be provided. Parts identification and site ISSL will be decided at the provisioning conference.	CLOSED - 9/13/02
9/13/02	89	Systems Support - Maintenance Plan	ORPG had 40% failure on reused cables. Need cost-benefit analysis on cable reuse vs. cable replacement (Slide 87)	OST PPD	Complete a cost-benefit analysis on cable reuse vs. cable replacement	RSIS - System Support Engineering	The re-use of cables will not be done. COTS cables will be used instead.	CLOSED - 9/13/02
9/13/02	90	Systems Support - Maintenance Plan	Does Sigmet use GIDEP (Slide 81)	OST PPD	Determine if Sigmet uses GIDEP	RSIS - System Support Engineering / SIGMET	GIDEP is not used. SIGMET relies on distributor to provide notification on obsolescence parts and the need for lifetime purchases. If the need arises, procurement services can be used to actively manage availability, forecasts, and diminishing resource management.	CLOSED - 9/13/02
9/13/02	91	Systems Support - Maintenance Plan	When SIGMET reprograms a logic component, do they mark the component to indicate its been reprogrammed? If so, how?	ROC	When SIGMET reprograms a logic component, mark the component to indicate its been reprogrammed. Document how.	RSIS - System Support Engineering	Through the use of FPGA's, all logic components will be reprogrammed on start-up or on command.	CLOSED - 9/13/02
9/13/02	92	Systems Support - Tech Manuals	RVP8 will be out in December, when will engineering documentation be available?	ROC	Determine when will the engineering documentation be available.	RSIS - System Support Engineering / SIGMET	SIGMET will begin to provide drawing information on RVP-8 and RCP-8 by the middle of November.	CLOSED - 9/13/02
9/13/02	93	Systems Support - Tech Manuals	When legacy documentation (specs, tech manuals & eng drawings) are not correct, is the ROC notified?	ROC	Notify the ROC when legacy documentation (specs, tech manuals & eng drawings) is not correct	RSIS - System Support Engineering	The ROC is notified when legacy documentation is not correct.	CLOSED - 9/13/02

9/13/02	94	Systems Support - Tech Manuals	Need to address softcopy requirement (per Govt directive) (Slide 134)	OST PPD	Address softcopy requirement (per Govt directive)	RSIS - System Support Engineering	Softcopies of Tech Manuals will be attached to the PCR.	CLOSED - 9/13/02
9/13/02	95	Systems Support - Deployment	During installation of the ORPG the schedule for FAA installation was compressed. This did not leave time for pre-or post briefings which are required by FAA. This compressed schedule put unnecessary stress on on-site technicians and AOS-250 personnel	FAA	Provide for a staggered installation of FAA sites throughout / over the project, not all at the end.	NPI PM	This is a cost issue. OST will coordinate the proposed schedule with all interested parties.	CLOSED - 9/13/02
9/13/02	96	Systems Support - Warranty	Gov't and Contractor re-examine 1 year hardware warranty. Re-examine SIGMET's 1 year warranty	NWS SEC	Re-examine SIGMET's 1 year warranty	RSIS - PM	SIGMET's policy is 1 year, any additional warranty is not cost effective. The ORDA program is buying a lifetime software subscription service from SIGMET. This contract will be administered by the ROC.	CLOSED - 9/18/02
9/16/2002	97	Program Management	[Program Baseline] Define the program baseline. Identify the critical work elements that need to be completed by each milestone. This would provide a guiding plan for the project and help identify when the project needs more resources or time.	NWS SEC	Define the program baseline	RSIS - PC	The delivered CDRL's will have schedule and timing defined.	CLOSED - 9/16/02
9/16/2002	98	Program Management	[Risk Management Plan] It is not clear that the specific risks identified as high risks or moderate risks are complete. For example, it is not clear that "New Requirements" is highly likely nor that "Pressure to Deploy" will have high negative impact. A review and update of all program risks is recommended. Program Management, and perhaps the agencies, should participate in review of risks and mitigation plans.	NWS SEC	Risk Management Review	RSIS - Test Engineering	Slide 42 states that all risks are reviewed by the Risk Management Team on a Monthly, Milestone, or As-Needed Basis. All risks are assessed based upon probability and consequence.	CLOSED - 9/16/02
9/16/2002	99	Program Management	Since providing budgeted cost status is planned, actual cost status for the same cost accounts should be provided. This will allow a comparison of budgeted versus actual for each cost account.	NWS SEC	Actual cost status for the same cost accounts should be provided.	RSIS - PM	Information will be provided once cost proposal is submitted and approved	CLOSED - 9/16/02
9/16/2002	100	Hardware Technical Approach	Discuss safety engineering considerations. This would show that safety requirements are identified and that processes are in place to avoid injury or death.	NWS SEC	Discuss safety engineering considerations.	RSIS - Systems Enginnering	considerations that have been taken into account thus far. With the design still evolving, additional saftey considers will be reviewed at CDR.	CLOSED - 9/16/02
9/16/2002	101	Systems Support - Assembly Plan	Many of the subsequent activities presented during the PDR made the presumption of an independent QA function to monitor the implementation of many of the defined processes. However, there is no independent QA function on the staffing chart. How is this function going to be handled? [ORDA staffing, slide 8]	NWS SEC	Determine how are you going to do QA? Who in the organization has that responsibility? What is the plan to insure quality functions are met?	RSIS - System Support Engineering	QA for software development is documented in the TEMP. QA during production is completed at SIGMET and documented in the SIGMET Manufacturing Process Flow. Deployment QA is handled by Logistics Engineering. Inspection on incoming and outgoing components per the process that will be documented on the Configuration Control Sheets. Configuration Control Sheets developed through the CM Analyst, Systems, Software, and Test Engineers.	CLOSED - 9/16/02
9/16/2002	102	Systems Support - Drafting	Provide engineering drawings; DMSC SEF indicates approximately 15% should be done by PDR. This would provide a preliminary view of the system, hardware, and software design and would help assess the required level of drafting resources needed to get the drawings done on time.	NWS SEC	Provide list of engineering drawings.	RSIS - System Support Engineering	Slides 54, 56, 66,84, 85 represent the drawings. By completion of the cost proposal, an assessment of the drafting resources will be complete.	CLOSED - 9/16/02
9/16/2002	103	Systems Support - Maintenance Plan	Provide RMA analysis and data. The RMA analysis and data is needed for maintenance planning, logistics and provisioning.	NWS SEC	Provide RMA analysis and data.	RSIS - System Support Engineering	Slide 132 provides RMA data. The Maintenance Plan describes in detail how that information was derived.	CLOSED - 9/16/02

9/16/2002	104	Testing	Describe special test tools and test data that will be needed. This allows for the collection of test data and acquisition of test instruments. [Test Tools and Test Data]	NWS SEC	Describe special test tools and test data that will be needed.	RSIS - Test Engineering	Slide 97 & 108 describe the test tools and process	CLOSED - 9/16/02
9/16/2002	105	Program Management	[SIGMET Warranty] Need to clarify the software warranty. For example, if SIGMET corrects a bug in the software, but the OS of the platform has changed from that in the NEXRAD network, must the Government procure an OS upgrade for the network, or must SIGMET provide a solution to match the deployed OS.	NWS SEC	Need to clarify the software warranty.	RSIS - PM	SIGMET's policy is 1 year, any additional warranty is not cost effective. The ORDA program is buying a lifetime software subscription service from SIGMET. This contract will be administered by the ROC.	CLOSED - 9/18/02
9/16/2002	106	Security	Discuss security engineering considerations. An overview of security activities and products was provided. Details were not discussed, limiting the chance of getting feedback from PDR participants that Tri-Agency security requirements are being addressed. [Duplicate of Action Item 10, though this wording provides more detail.]	NWS SEC	Discuss security engineering considerations.	RSIS - Security	Slides 32-39 describe the Security Considerations. Details are found in the Security Accreditation Plan.	CLOSED - 9/16/02